

## Genset Model: P20E

# POWER BY DEUTZ

110V-480V

3P4W

### Quality Standards

DEUTZ 226B series low power diesel engine made by Sino-Germany Joint-venture Company in China. German DEUTZ Engine Company has transferred all the facilities, technologies, management system to Shandong Weifang Diesel Engine Company, which is a Sino-Germany Joint-Venture Company with a capacity of manufacturing 226B series engine over 25,000 units per year.

### Factory Test

Each our generating sets must be got through 1 hour load test for running 0%, 25%, 50%,75%, 100% and 110% load before dispatch, All protective devices, control functions are simulated and it's system checked, proved and then passed for dispatch. A test certificate can be provided upon request.

## MAIN SPECIFICATIONS OF GENERATOR SETS

<i>Diesel Generator Set</i>	
<b>GENSET MODEL NOS.</b>	<b>P20E</b>
Manufacturer	Power World Machinery Equipment Co.,Ltd
Rated speed / frequency	1500 rpm / 50 Hz
Continuous output (KW/KVA)	16KW/20KVA
Standby output (KW/KVA)	18KW/22.5KVA
Voltage, Phase and wire	400V/230V, 3 Phase and 4 Wires
Rated power factor	0.8 (lagging)
Maximum output current(A)	60
Dimension(L*W*H) (mm)	1750X800X1350
Weight(kg)	650KG
<b>Rating Definitions</b> (Operation at Altitude $\leq 1000\text{m}$ , Ambient temperature $\leq 40^{\circ}\text{C}$ )	
<b>Continuous Power</b>	
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.	
<i>Diesel Engine</i>	
<b>DIESEL ENGINE MODEL</b>	<b>D226B-3D(DEUTZ)</b>
<b>Engine Characters</b>	Water-cooled, 3 cylinders in line, 4-stroke, spontaneously inspiration, direct spray fuel system
The maximum output (kW)	31
Engine Manufacturer	Sino-Germany joint venture Weichai-Deutz Co.,Ltd

Bore(mm)× Stroke (mm)	105X120
Fuel consumption	6.5L/H( in full load)
Oil Capacity (Liters)	7.25
Exhaust air flow(m <sup>3</sup> /min)	34
Compress ratio	16.5:1
Exhaust gas flow(m <sup>3</sup> /min)	4.78
Exhaust highest temperature	435°C
Lubricating oil consumption(g/kwh)	1.36
Cooling water capacity(L)	15.5
Voltage for start(V)	24
Instrument for adjusting speed	Mechanical
Noise level(A)	≤96dBA(open), ≤68dBA(silent)

### ALTERNATOR

<b>ALTERNATOR MODEL</b>	<b>Stamford</b>
Excitation	Brushless
Insulation class	H
Protection class	IP23
Efficiency	88%
Voltage adjust range	≥±6%
Steady state voltage regulation	≤±1%
Voltage Control	AVR

### Generating Set Control System

<p>AC/DC control panel consisting of: (GU320B or PLC5110 control panel)</p> <ul style="list-style-type: none"> <li>↪ Emergency Stop button</li> <li>↪ Voltmeter and selector switch</li> <li>↪ Ammeter and selector switch</li> <li>↪ Frequency meter</li> <li>↪ Controller with selection for auto-start, manual-start and with following (and not restricted to) features: <ul style="list-style-type: none"> <li>☺ Start/Stop button</li> <li>☺ Hour run meter</li> <li>☺ Monitor engine temperature and provides shutdown protection</li> <li>☺ Monitor engine speed and provides optional shutdown protection</li> <li>☺ Monitor oil pressure or level and provides shutdown protection</li> <li>☺ Alarm output for abnormal operation</li> </ul> </li> </ul>
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#### Available Options:

----Weatherproof Canopy, Soundproof Canopy, Trailers, Automatic mains failure panel, Manual transfer panel, Automatic transfer Panel, Fully Automatic Synchronizing and load Sharing Panel, Manual Synchronizing Panel.

**we reserve our right to change the above specifications without notice.**